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PTO/SB/30 (09-03)
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Request	Application Number	09/978,454
for Continued Examination (BCE)	Filing Date	October 15, 2001
Continued Examination (RCE) Transmittal	First Named Inventor	Erion et al.
Address to: Mail Stop RCE	Art Unit	1616
Commissioner for Patents P.O. Box 1450	Examiner Name	Dameron Jones
P.O. Box 1450 Alexandria, VA 22313-1450	Attorney Docket Number	45198.00027.RCE2(CON1)

This is a Request for Continued Examination (RCE) under 37 CFR 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8,

1995	1995, or to any design application. See Instruction Sheet for RCEs (not to be submitted to the USPTO) on page 2.					
1.	1. <u>Submission required under 37 CFR 1.114</u> Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s).					
	a. Previously submitted. If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.					
	i. Consider the arguments in the Appeal Brief or Rely Brief previously filed on					
	ii. Other					
	b. Enclosed	_				
	i. 🗸 Amendment/Reply iii. 🗸 Informati	on Disclosure Statement (IDS)				
	ii. Affidavit(s)/ Declaration(s) iv. V Other Fo	orm PTO/SB/08A, with 25 references				
2.	Miscellaneous	8766				
	Suspension of action on the above-identified application is requested under 37 CFR 1.103(c) for a a. period of months. (Period of suspension shall not exceed 3 months; Fee under 37 CFR 1.17(i) required)					
	b. Other	7 CFR 1.103(c) for a inder 37 CFR 1.17(i) required) CE is filed. verpayments, to				
3.	Fees The RCE fee under 37 CFR 1.17(e) is required by 37 CFR 1.114 when the RC	CF is filed				
"	The Director is hereby authorized to charge the following fees, or credit any or	verpayments, to				
a. Deposit Account No. 50-2613						
	i. RCE fee required under 37 CFR 1.17(e)	90 04 5				
	ii. Extension of time fee (37 CFR 1.136 and 1.17)	1/20				
	iii. Other	02/04/2004 01 FC:1801				
	b. Check in the amount of \$ _770.00enclosed	0 0				
c. Payment by credit card (Form PTO-2038 enclosed)						
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED						
	ne (Print/Type) Diaga L. Bush, PhyD., Esq. Regist	ration No. (Attorney/Agent) 51,109				
Signa	nature (Supr) Date	January 30, 2004				
CERTIFICATE OF MAILING OR TRANSMISSION						
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below.						
	Name (Print/Type) Kimila Carraway Signature Date Inquiry 20, 2004					
Signat	lature CMIII COUNTIE Date	January 30, 2004				

This collection of information is required by 37 CFR 1.114. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

pplicants:

Erion et al.

Serial No.:

09/978,454

Group Art Unit: 1616

Filed: October 15, 2001

Examiner: Dameron Jones

Title: NOVEL PRODRUGS FOR

PHOSPHORUS-CONTAINING

COMPOUNDS

REMARKS

MAIL STOP RCE Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

These remarks accompany the filing of an RCE under 37 CFR 1.114. It is believed that no additional fee is required, but the Commissioner is hereby authorized to charge Deposit Account No. 50-2613 for any fees that may become due or credit become payable during the pendency of this application.

CERTIFICATE OF MAILING (37 C.F.R. §1.8a)

I hereby certify that this paper (along with anything referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as First Class Mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

> Kimila Carraway Name of Person Mailing Paper

January 30, 2004

Date of Deposit SAN/81752.1

Claims:

A complete set of all claims previously submitted, including the status for each claim, immediately follows below.

1.-167. (Cancelled)

168. (Previously added) A pharmaceutical composition comprising a compound of Formula I:

Formula I

wherein:

V, W and W' are independently selected from the group consisting of hydrogen, alkyl, aralkyl, alicyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, 1-alkenyl, and 1-alkynyl; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, wherein the cyclic group optionally contains one heteroatom and is substituted with a hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy group attached to a carbon atom that is three atoms away from both oxygen atoms that are attached to the phosphorus atom; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group wherein the cyclic group optionally contains one heteroatom, and is fused to an aryl group, at the beta and gamma position to the oxygen attached to the phosphorus; or

together V and W are connected via an additional three carbon atoms to form an optionally substituted cyclic group containing six carbon atoms and is optionally substituted with one substituent selected from the group consisting of hydroxy, acyloxy, alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxycarbonyloxy groups, wherein such substituent is attached to one of said carbon atoms that is three atoms away from an oxygen attached to the phosphorus atom; or

together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;

together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl; or

Z is selected from $-CHR^2OH$, $-CHR^2OC(O)R^3$, $-CHR^2OC(S)R^3$, $-CHR^2OC(S)OR^3$, $-CHR^2OC(O)SR^3$, $-CHR^2OCO_2R^3$, $-OR^2$, $-SR^2$, $-CHR^2N_3$, $-CH_2(aryl)$, -CH(aryl)OH, $-CH(CH=CR^2_2)OH$, $-CH(C\equiv CR^2)OH$, $-R^2$, $-NR^2_2$, $-OC(O)R^3$, $-OCO_2R^3$, $-SC(O)R^3$, $-SCO_2R^3$, $-NHC(O)R^2$, $-NHCO_2R^3$, $-CH_2NH(aryl)$, $-(CH_2)_pOR^{12}$, and $-(CH_2)_pSR^{12}$;

R² is selected from the group consisting of R³ and hydrogen;

 R^3 is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl; R^{12} is selected from the group consisting of hydrogen, and lower acyl; and p is an interger 2 or 3;

with the provisos that:

- a) V, Z, W, and W' are not all hydrogen; and
- b) when Z is $-R^2$, then at least one of V, W, and W' is not hydrogen, alkyl, aralkyl, or alicyclic; and

M is selected from the group that, attached to PO_3^{2} , $P_2O_6^{3}$, or $P_3O_9^{4}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via a carbon, oxygen, or nitrogen atom, with the proviso that $M-PO_3^{2}$ is not an FBPase inhibitor;

wherein said compound of Formula I is converted to MPO₃H₂ by human liver microsomes;

pharmaceutically acceptable salts of Formula I; and a pharmaceutically acceptable excipient.

- 169. (Previously Amended) The pharmaceutical composition of claim 168, wherein MH is 9-(2-phosphonylmethoxyethyl)adenine (PMEA) or analogues thereof.
- 170. (Previously Amended) The pharmaceutical composition of claim 168, wherein MH is 9-(2-phosphonylmethoxyethyl)adenine (PMEA).
- 171. (Previously Amended) The pharmaceutical composition of claim 168, wherein MH is selected from penciclovir, 3TC, ACV, PMPA, araC, ribavirin, fludarabine, and 5-fluoro-2'-deoxyuridine.
- 172. (Previously Amended) The pharmaceutical composition of claim 168, wherein MH is radiolabelled 2'-deoxy-5-Iodouridine.
- 173. (Previously Amended) The pharmaceutical composition of claim 172 wherein MH is 2'-deoxy-5-¹³¹I-iodouridine.
- 174. (Previously Amended) The pharmaceutical composition of claim 168, wherein V is selected from the group consisting of aryl, substituted aryl, heteroaryl, and substituted heteroaryl.
- 175. (Previously Amended) The pharmaceutical composition of claim 168, wherein the prodrug is in the *cis* configuration.

- 176. (Previously Amended) The pharmaceutical composition of claim 174, wherein the prodrug is in the *cis* configuration.
- 177. (Previously Amended) The pharmaceutical composition of Claim 171, wherein MH is araC and V is a heteroaryl group.
- 178. (Previously Amended) The pharmaceutical composition of claim 177, wherein V is 4-pyridyl.
- 179. (Previously Amended) The pharmaceutical composition of claim 172 wherein MH is 2'-deoxy-5-¹²⁵I-iodouridine.
- 180. (Previously added) A pharmaceutical composition comprising a compound of Formula I:

Formula I

wherein:

V, W and W' are independently selected from the group consisting of hydrogen, alkyl, aralkyl, alicyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, 1-alkenyl, and 1-alkynyl; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, wherein the cyclic group optionally contains one heteroatom and is substituted with a hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy group attached

to a carbon atom that is three atoms away from both oxygen atoms that are attached to the phosphorus atom; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group wherein the cyclic group optionally contains one heteroatom, and is fused to an aryl group, at the beta and gamma position to the oxygen attached to the phosphorus; or

together V and W are connected via an additional three carbon atoms to form an optionally substituted cyclic group containing six carbon atoms and is optionally substituted with one substituent selected from the group consisting of hydroxy, acyloxy, alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxycarbonyloxy groups, wherein such substituent is attached to one of said carbon atoms that is three atoms away from an oxygen attached to the phosphorus atom; or

together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;

together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl; or

Z is selected from $-CHR^2OH$, $-CHR^2OC(O)R^3$, $-CHR^2OC(S)R^3$, $-CHR^2OC(S)OR^3$, $-CHR^2OC(O)SR^3$, $-CHR^2OCO_2R^3$, $-OR^2$, $-SR^2$, $-CHR^2N_3$, $-CH_2(aryl)$, -CH(aryl)OH, $-CH(CH=CR^2_2)OH$, $-CH(C\equiv CR^2)OH$, $-R^2$, $-NR^2_2$, $-OC(O)R^3$, $-OCO_2R^3$, $-SC(O)R^3$, $-SCO_2R^3$, $-NHC(O)R^2$, $-NHCO_2R^3$, $-CH_2NH(aryl)$, $-(CH_2)_pOR^{12}$, and $-(CH_2)_pSR^{12}$;

R² is selected from the group consisting of R³ and hydrogen;

R³ is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl; R¹² is selected from the group consisting of hydrogen, and lower acyl; and p is an interger 2 or 3;

with the provisos that:

- a) V, Z, W, and W' are not all hydrogen; and
- b) when Z is -R², then at least one of V, W, and W' is not hydrogen, alkyl, aralkyl, or alicyclic; and

M is selected from the group that, attached to PO_3^{2-} , $P_2O_6^{3-}$, or $P_3O_9^{4-}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via a carbon atom, with the proviso that MPO_3^{2-} is not an FBPase inhibitor;

wherein said compound of Formula I is converted to MPO₃H₂ by human liver microsomes;

pharmaceutically acceptable prodrugs and salts of Formula I; and a pharmaceutically acceptable excipient.

181. (Previously added) A pharmaceutical composition comprising a compound of Formula I:

Formula I

wherein:

V, W and W' are independently selected from the group consisting of hydrogen, alkyl, aralkyl, alicyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, 1-alkenyl, and 1-alkynyl; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, wherein the cyclic group optionally contains one heteroatom and is substituted with a hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy group attached to a carbon atom that is three atoms away from both oxygen atoms that are attached to the phosphorus atom; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group wherein the cyclic group optionally contains one heteroatom, and is fused to an aryl group, at the beta and gamma position to the oxygen attached to the phosphorus; or

together V and W are connected via an additional three carbon atoms to form an optionally substituted cyclic group containing six carbon atoms and is optionally substituted with one substituent selected from the group consisting of hydroxy, acyloxy, alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxycarbonyloxy groups, wherein such substituent is attached to one of said carbon atoms that is three atoms away from an oxygen attached to the phosphorus atom; or

together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;

together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl; or

 $\label{eq:Zisselected from -CHR^2OH, -CHR^2OC(O)R^3, -CHR^2OC(S)R^3, -CHR^2OC(S)OR^3, -CHR^2OC(O)SR^3, -CHR^2OCO_2R^3, -OR^2, -SR^2, -CHR^2N_3, -CH_2(aryl), -CH(aryl)OH, -CH(CH=CR^2_2)OH, -CH(C\equiv CR^2)OH, -R^2, -NR^2_2, -OC(O)R^3, -OCO_2R^3, -SC(O)R^3, -SCO_2R^3, -NHC(O)R^2, -NHCO_2R^3, -CH_2NH(aryl), -(CH_2)_pOR^{12}, and -(CH_2)_pSR^{12};$

R² is selected from the group consisting of R³ and hydrogen;

R³ is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl;

R¹² is selected from the group consisting of hydrogen, and lower acyl; and p is an interger 2 or 3;

with the provisos that:

- a) V, Z, W, and W' are not all hydrogen; and
- b) when Z is -R², then at least one of V, W, and W' is not hydrogen, alkyl, aralkyl, or alicyclic; and

M is selected from the group that, attached to PO_3^{2-} , $P_2O_6^{3-}$, or $P_3O_9^{4-}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via an oxygen atom, with the proviso that MPO_3^{2-} is not an FBPase inhibitor;

wherein said compound of Formula I is converted to MPO₃H₂ by human liver microsomes;

pharmaceutically acceptable prodrugs and salts of Formula I; and a pharmaceutically acceptable excipient.

182. (Previously added) A pharmaceutical composition comprising a compound of Formula I:

$$M \longrightarrow P \longrightarrow H$$

Formula I

wherein:

V, W and W' are independently selected from the group consisting of hydrogen, alkyl, aralkyl, alicyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, 1-alkenyl, and 1-alkynyl; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group containing 5-7 atoms, wherein the cyclic group optionally contains one heteroatom and is substituted with a hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy group attached to a carbon atom that is three atoms away from both oxygen atoms that are attached to the phosphorus atom; or

together V and Z are connected via an additional 3-5 atoms to form a cyclic group wherein the cyclic group optionally contains one heteroatom, and is fused to an aryl group, at the beta and gamma position to the oxygen attached to the phosphorus; or

together V and W are connected via an additional three carbon atoms to form an optionally substituted cyclic group containing six carbon atoms and is optionally substituted with one substituent selected from the group consisting of hydroxy, acyloxy, alkoxycarbonyloxy, alkylthiocarbonyloxy, and aryloxycarbonyloxy groups, wherein such substituent is attached to one of said carbon atoms that is three atoms away from an oxygen attached to the phosphorus atom; or

together Z and W are connected via an additional 3-5 atoms to form a cyclic group, optionally containing one heteroatom, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl;

together W and W' are connected via an additional 2-5 atoms to form a cyclic group, optionally containing 0-2 heteroatoms, and V must be aryl, substituted aryl, heteroaryl, or substituted heteroaryl; or

Z is selected from $-CHR^2OH$, $-CHR^2OC(O)R^3$, $-CHR^2OC(S)R^3$, $-CHR^2OC(S)OR^3$, $-CHR^2OC(O)SR^3$, $-CHR^2OCO_2R^3$, $-OR^2$, $-SR^2$, $-CHR^2N_3$, $-CH_2(aryl)$, -CH(aryl)OH, $-CH(CH=CR^2_2)OH$, $-CH(C\equiv CR^2)OH$, $-R^2$, $-NR^2_2$, $-OC(O)R^3$, $-OCO_2R^3$, $-SC(O)R^3$, $-SCO_2R^3$, $-NHC(O)R^2$, $-NHCO_2R^3$, $-CH_2NH(aryl)$, $-(CH_2)_pOR^{12}$, and $-(CH_2)_pSR^{12}$; R^2 is selected from the group consisting of R^3 and hydrogen;

 R^3 is selected from the group consisting of alkyl, aryl, alicyclic, and aralkyl; R^{12} is selected from the group consisting of hydrogen, and lower acyl; and p is an interger 2 or 3;

with the provisos that:

- a) V, Z, W, and W' are not all hydrogen; and
- b) when Z is -R², then at least one of V, W, and W' is not hydrogen, alkyl, aralkyl, or alicyclic; and

M is selected from the group that, attached to PO_3^{2-} , $P_2O_6^{3-}$, or $P_3O_9^{4-}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via a nitrogen atom, with the proviso that MPO_3^{2-} is not an FBPase inhibitor;

wherein said compound of Formula I is converted to MPO₃H₂ by human liver microsomes;

pharmaceutically acceptable prodrugs and salts of Formula I; and a pharmaceutically acceptable excipient.

183. (Previously amended) A pharmaceutical composition comprising a compound of Formula I:

Formula I

wherein:

W and W' are independently selected from the group of H, alkyl, aralkyl, alicyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, 1-alkenyl, and 1-alkynyl;

V is selected from the group of aryl, substituted aryl, heteroaryl, substituted heteroaryl, alkynyl and 1-alkenyl;

Z is selected from $-CHR^2OH$, $-CHR^2OC(O)R^3$, $-CHR^2OC(S)R^3$, $-CHR^2OC(S)OR^3$, $-CHR^2OC(O)SR^3$, $-CHR^2OCO_2R^3$, $-OR^2$, $-SR^2$, $-CHR^2N_3$, $-CH_2(aryl)$, -CH(aryl)OH, $-CH(CH=CR^2_2)OH$, $-CH(C\equiv CR^2)OH$, $-R^2$, $-NR^2_2$, $-OC(O)R^3$, $-OCO_2R^3$, $-SC(O)R^3$, $-SCO_2R^3$, $-NHC(O)R^2$, $-NHCO_2R^3$, $-CH_2NH(aryl)$, $-(CH_2)_0OR^{12}$, and $-(CH_2)_0SR^{12}$; or

together V and Z are connected via 3-5 atoms to form a cyclic group, optionally containing 1 heteroatom, that is fused to an aryl group at the beta and gamma position to the oxygen attached to the phosphorus;

p is an integer 2 or 3;

R² is selected from the group of R³ and -H;

R³ is selected from the group of alkyl, aryl, alicyclic, and aralkyl;

R¹² is selected from the group consisting of hydrogen, and lower acyl; and

M is selected from the group that, attached to PO_3^{2} , $P_2O_6^{3}$, or $P_3O_9^{4}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via a carbon, oxygen, or nitrogen atom;

wherein said compound of formula I is converted to MPO₃H₂ by human liver microsomes, with the proviso that M-PO₃²⁻ is not an FBPase inhibitor;

pharmaceutically acceptable prodrugs and salts of Formula I; and a pharmaceutically acceptable excipient.

184. (Previously amended) A pharmaceutical composition comprising a compound of Formula I:

Formula I

wherein:

V, W and W' are independently selected from the group of –H, alkyl, aralkyl, alicyclic, aryl, substituted aryl, heteroaryl, substituted heteroaryl, 1-alkenyl, and 1-alkynyl;

Z is selected from the group of: $-CHR^2OH$, $-CHR^2OC(O)R^3$, $-CHR^2OC(S)R^3$, $-CHR^2OCO_2R^3$, $-CHR^2OC(O)SR^3$, $-CHR^2OC(S)OR^3$, -CH(aryl)OH, $-CH(CH=CR^2_2)OH$, $-CH(C=CR^2)OH$, $-SR^2$, $-CH_2NHaryl$, $-CH_2$ aryl; or

together V and Z are connected via 3-5 carbon atoms to form a cyclic group, optionally containing heteroatom, substituted with hydroxy, acyloxy, alkoxycarbonyloxy, or aryloxycarbonyloxy attached to a carbon atom that is three atoms from an oxygen attached to phosphorus;

R² is selected from the group of R³ and H;

R³ is selected from the group of alkyl, aryl, alicyclic, and aralkyl; and

M is selected from the group that, attached to PO_3^{2-} , $P_2O_6^{3-}$, or $P_3O_9^{4-}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via a carbon, oxygen, or nitrogen atom;

wherein said compound of formula I is converted to MPO_3H_2 by human liver microsomes, with the proviso that $M-PO_3^{2-}$ is not an FBPase inhibitor

pharmaceutically acceptable prodrugs and salts of Formula I; and a pharmaceutically acceptable excipient.

185. (Previously amended) A pharmaceutical composition comprising a compound of Formula VIII:

$$D^4$$
 D^3 Z'

wherein:

Z' is selected from the group of -OH, $-OC(O)R^3$, $-OCO_2R^3$, and $-OC(O)SR^3$; D^4 and D^3 are independently selected from the group of -H, alkyl, $-OR^2$, -OH, and $-OC(O)R^3$; with the proviso that at least one of D^4 and D^3 are -H;

VIII

R² is selected from the group of R³ and H;

R³ is selected from the group of alkyl, aryl, alicyclic, and aralkyl; and

M is selected from the group that, attached to PO_3^{2} , $P_2O_6^{3}$, or $P_3O_9^{4}$, is biologically active *in vivo* and that is attached to the phosphorus atom in Formula I via a carbon, oxygen, or nitrogen atom;

wherein said compound of formula I is converted to MPO₃H₂ by human liver microsomes, with the proviso that M-PO₃²⁻ is not an FBPase inhibitor; and pharmaceutically acceptable prodrugs and salts of Formula VIII; and a pharmaceutically acceptable excipient.

REMARKS

Claims 168-185 have previously been allowed. The Applicants herewith submit a Supplemental Information Disclosure Statement for the Examiner's consideration.

The Applicants believe that the Application is in condition for allowance, and such action is respectfully requested at the Examiner's earliest convenience

Respectfully submitted,

Dated: 1 30 04

By:

Diana L. Bush, Esq., Ph.D.

Reg. No. 51,109

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